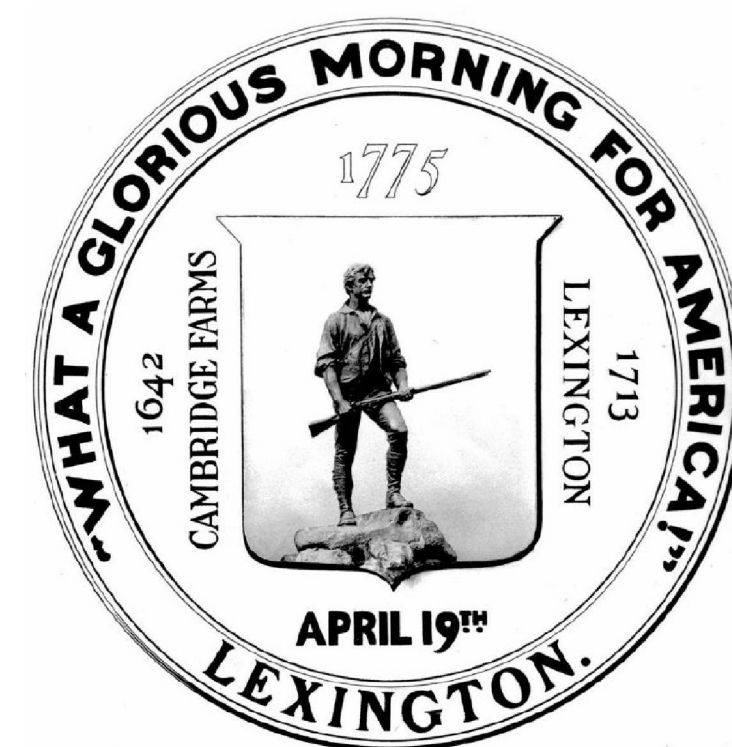


**TOWN OF LEXINGTON, MA**  
**DEPARTMENT OF PUBLIC WORKS**  
**TOWN CENTER STREETScape & BATTLE GREEN PROJECT**  
**TRAFFIC IMPROVEMENT TRIAL PROJECT**  
**CONTRACT NO. XXXX**  
**5/20/16**



BOARD OF SELECTMEN  
SUZANNE E. BARRY, CHAIR  
LYNNE A. PEASE, EXECUTIVE CLERK  
MICHELLE L. CICCOLO  
NORMAN P. COHEN  
PETER C. J. KELLEY  
JOSEPH N. PATO

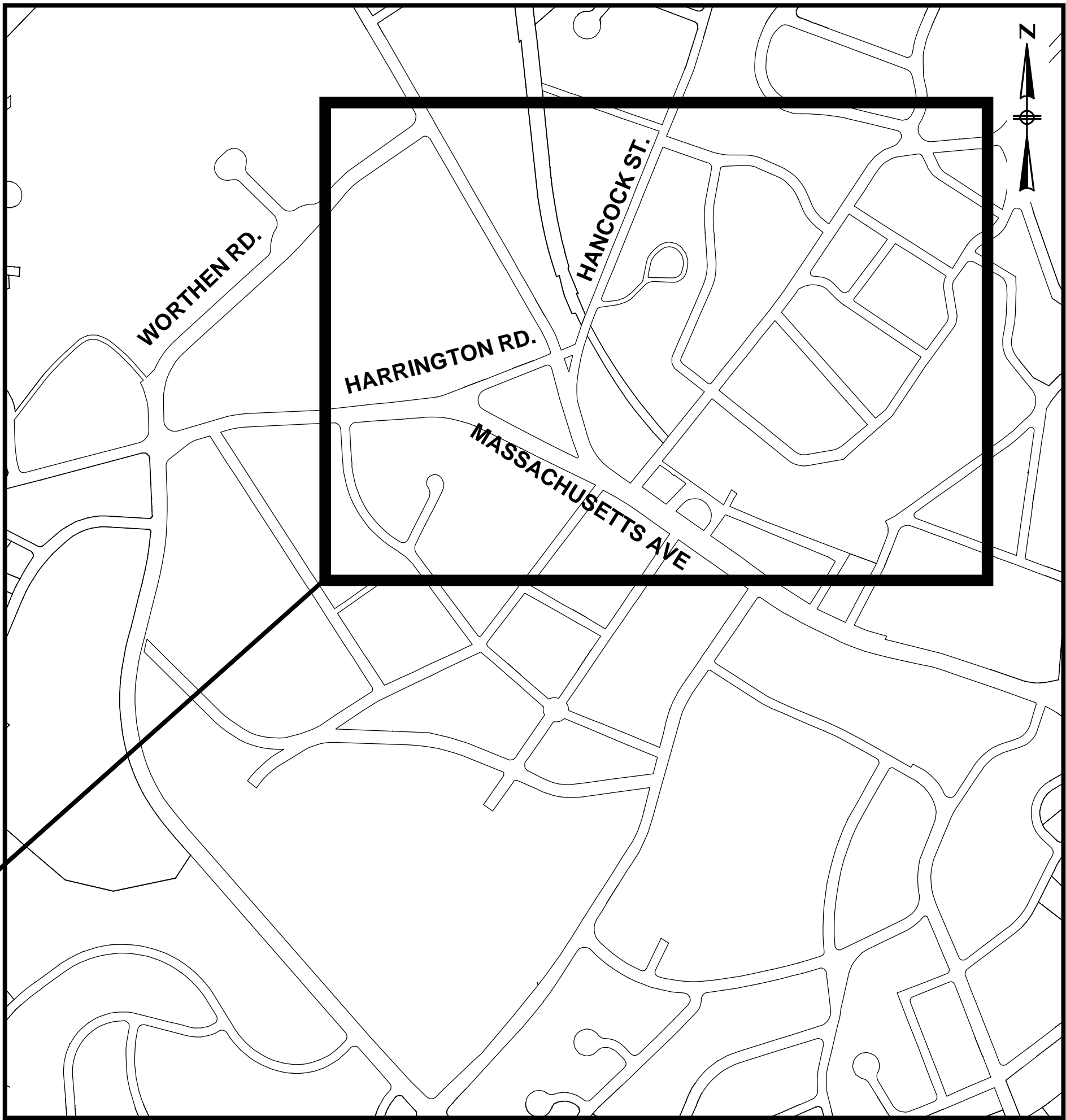
TOWN MANAGER

CARL F. VALENTE

DEPARTMENT OF PUBLIC WORKS

DAVID J. PINSONNEAULT, DIRECTOR  
JOHN LIVSEY, TOWN ENGINEER

Project  
Location



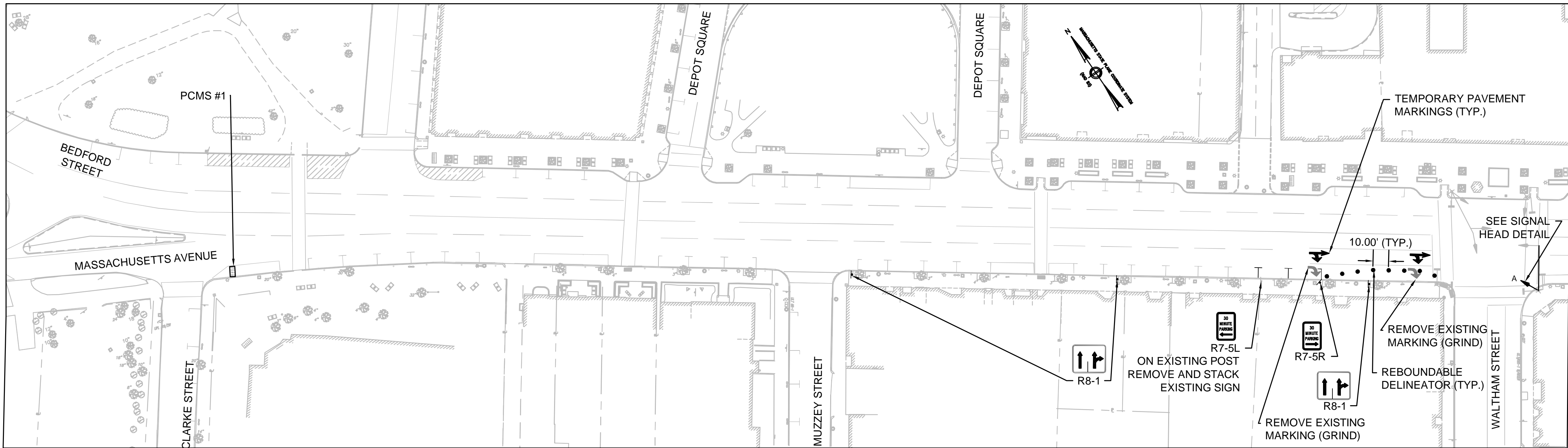
**LOCATION MAP**  
NOT TO SCALE

PLAN INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	RIGHT TURN LANE TRIAL CLOSURE AT WALTHAM STREET
3	RIGHT TURN LANE TRIAL CLOSURE AT EDISON WAY
4-5	HARRINGTON ROAD ONE WAY TRIAL CLOSURE
6-7	HARRINGTON ROAD FULL CLOSURE TRIAL



0:14:00S/4496 - LEXINGTON TOWN CENTER/DRAWING FILES/PLAN SET/4496 MASS AVE TMP CLOSE.DWG



RIGHT-TURN LANE CLOSURE ON MASSACHUSETTS AVENUE (EASTBOUND) AT WALTHAM STREET

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	DIMENSIONS (in)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA, IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK- GROUND	LEGEND	BORDER			
R7-5L	12 in	18 in		SEE 2009 MUTCD STANDARDS	SEE 2009 MUTCD STANDARDS	SEE 2009 MUTCD STANDARDS	1	WHITE	GREEN	GREEN	EXISTING 1	1.5	1.5
R7-5R	12 in	18 in					1	WHITE	GREEN	GREEN	P-5 1	1.5	1.5
R8-1	30 in	30 in					3	ORANGE	BLACK	BLACK	P-5 3	6.25	18.75

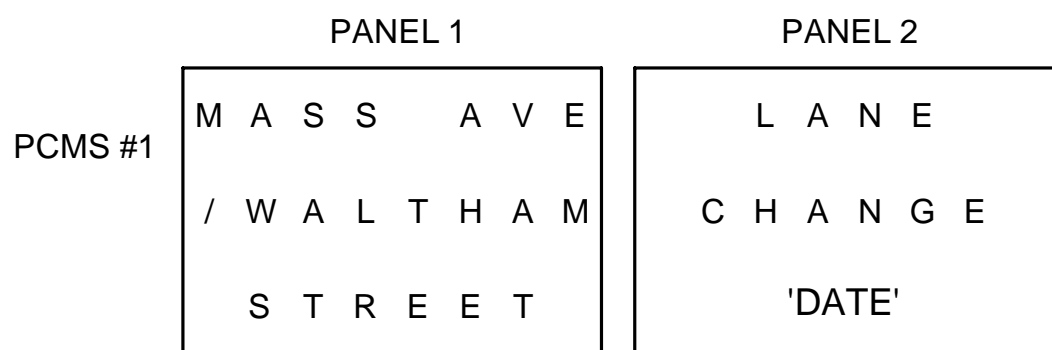


3 FOOT YELLOW REBOUNDABLE DELINEATOR

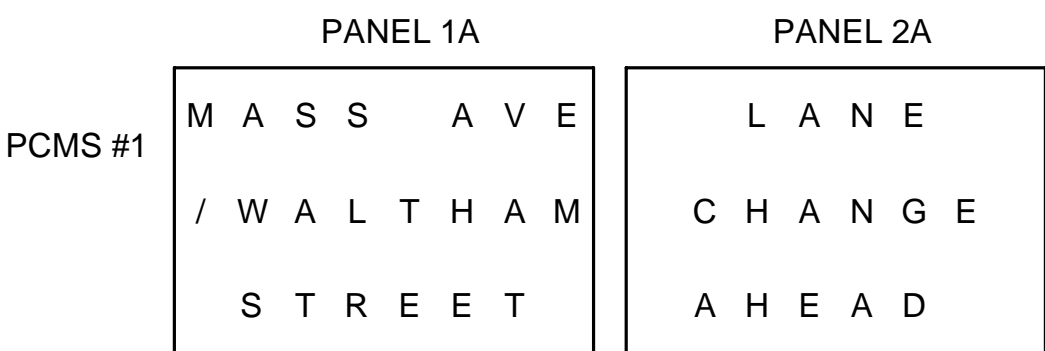
IMPLMENTATION STEPS MASSACUSETTS AVE. (EASTBOUND) TURN WALTHAM ST.

- THE CONTRACTOR MUST PRE-MARK PROPOSED SIGN LOCATIONS AND NOTIFY DIG SAFE AT LEAST 72-HOURS PRIOR TO INSTALLING ANY SIGN POSTS AND ANY EXCAVATION IN PUBLIC OR PRIVATE WAYS OR UTILITY COMPANY RIGHT OF WAY OR EASEMENT.
- INSTALL PORTABLE CHANGE MESSAGE SIGN (PCMS) #1 TWO WEEKS PRIOR TO RIGHT LANE CLOSURE.
- PRIOR TO IMPLEMENTING THE RIGHT TURN LANE CLOSURE THE FOLLOWING SHALL BE INSTALLED SIMULTANEOUSLY:
  - COVER RIGHT TURN SIGNAL HEAD ARROWS ON SIGNAL HEAD "A"
  - INSTALL TEMPORARY PAVEMENT MARKINGS ON THE MASSACHUSETTS AVE EASTBOUND APPROACH.
  - INSTALL TEMPORARY SIGNAGE ON EASTBOUND APPROACH.
  - INSTALL REBOUNDABLE DELINEATORS TO CLOSE RIGHT TURN LANE.
  - RECONFIGURE SIGNAL PHASING AND TIMING ACCORDINGLY INCLUDING PEDESTRIAN TIME.
- IMPLEMENTATION SHALL START DURING NON-PEAK TRAFFIC PERIODS AND NON-SPECIAL EVENT DAYS.
- AT THE CONCLUSION OF THE PROJECT AND AT THE DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL REMOVE ALL SIGNS, PAVEMENT MARKINGS, AND TRAFFIC CONTROL DEVICES ASSOCIATED WITH THE TRIAL AND SHALL RESTORE ALL SIGNS, PAVEMENT MARKINGS, AND TRAFFIC SIGNAL SETTINGS TO PRE-TRIAL CONFIGURATIONS.

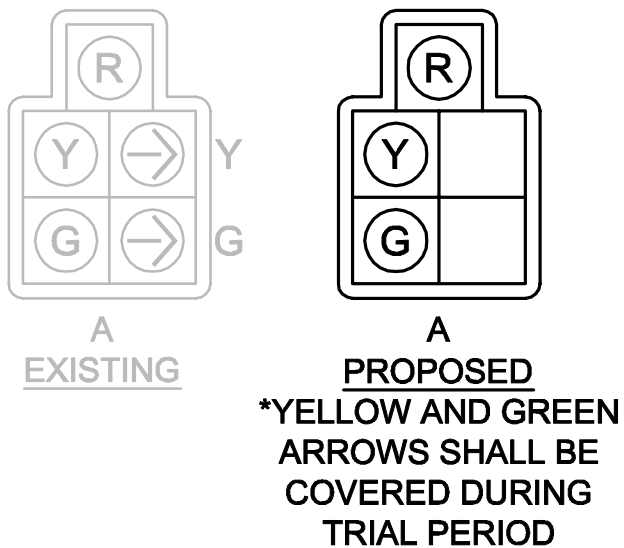
2 WEEKS PRIOR TO CHANGE IN TRAFFIC PATTERN



DURING TRIAL PERIOD



SIGNAL HEAD DETAIL



LEGEND:

- REBOUNDABLE DELINEATORS
- PAVEMENT MARKINGS
- SIGN
- SIGNAL HEADS
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)


DRAWN BY: TAD
DESIGNED BY: MWW
CHECKED BY: KYH

PE STAMP:  For Review Only
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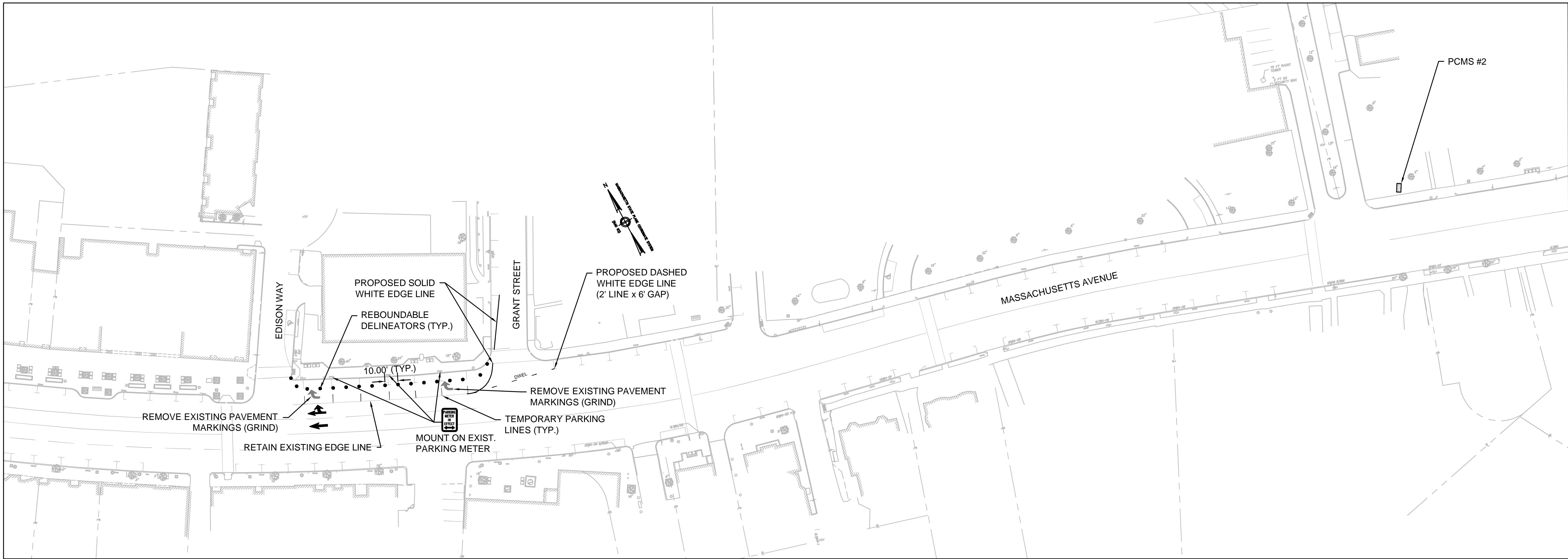
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UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

RIGHT TURN LANE TRIAL CLOSURE AT WALTHAM STREET
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BETA JOB No. 4496
PLOT DATE: 5/20/2016 5:28 PM
ISSUE DATE: 2/23/2016 4:04 PM
SHEET No. 2 OF 7
File: 4496 Mass Ave TMP Close.dwg



0:14:00S\4496 - LEXINGTON TOWN CENTER\DRAWING FILES\PLAN SET\4496 MASS AVE TMP CLOSE.DWG



RIGHT-TURN LANE CLOSURE ON MASSACHUSETTS AVENUE (WESTBOUND) AT EDISON WAY

IMPLMENTATION STEPS MASSACUSETTS AVE. (WESTBOUND) AT EDISON WAY

1. THE CONTRACTOR MUST PRE-MARK PROPOSED SIGN LOCATIONS AND NOTIFY DIG SAFE AT LEAST 72-HOURS PRIOR TO INSTALLING ANY SIGN POSTS AND ANY EXCAVATION IN PUBLIC OR PRIVATE WAYS OR UTILITY COMPANY RIGHT OF WAY OR EASEMENT.
2. INSTALL PORTABLE CHANGE MESSAGE SIGN (PCMS) #2 TWO WEEKS PRIOR TO RIGHT TURN LANE CLOSURE.
3. PRIOR TO IMPLEMENTING THE RIGHT TURN LANE CLOSURE, THE FOLLOWING SHALL BE INSTALLED SIMULTANEOUSLY:
  - a. INSTALL TEMPORARY PAVEMENT MARKINGS ON THE MASSACHUSETTS AVE WESTBOUND APPROACH.
  - b. INSTALL REBOUNDABLE DELINEATORS TO CLOSE RIGHT TURN LANE.
4. IMPLEMENTATION SHALL START DURING NON-PEAK TRAFFIC PERIODS AND NON-SPECIAL EVENT DAYS.
5. AT THE CONCLUSION OF THE PROJECT AND AT THE DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL REMOVE ALL SIGNS, PAVEMENT MARKINGS, AND TRAFFIC CONTROL DEVICES ASSOCIATED WITH THE TRIAL AND SHALL RESTORE ALL SIGNS, PAVEMENT MARKINGS, AND TRAFFIC SIGNAL SETTINGS TO PRE-TRIAL CONFIGURATIONS.



3 FOOT YELLOW REBOUNDABLE DELINEATOR

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	DIMENSIONS (in)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK- GROUND	LEGEND	BORDER			
R7-2	12 in	18 in		SEE 2009 MUTCD STANDARDS			3	WHITE	GREEN	GREEN	MOUNT 3 ON EXISTING METERS	1.5	4.5

2 WEEKS PRIOR TO CHANGE  
RIGHT TURN LANE CLOSURE

PCMS #2	PANEL 1	PANEL 2
	<div>M A S S A V E / E D I S O N W A Y</div>	<div>L A N E C H A N G E 'DATE'</div>

DURING TRIAL PERIOD

PCMS #2	PANEL 1A	PANEL 2A
	<div>M A S S A V E / E D I S O N W A Y</div>	<div>L A N E C H A N G E A H E A D</div>

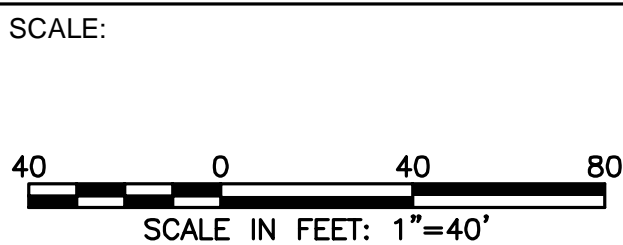
LEGEND:

- REBOUNDABLE DELINEATORS
- SIGN
- ▤ PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- ➡ PAVEMENT MARKINGS
- ➡ SIGNAL HEADS

NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION
REVISIONS				

DRAWN BY: TAD
DESIGNED BY: MWW
CHECKED BY: KYH

For  
Review Only



RIGHT TURN LANE TRIAL CLOSURE  
AT EDISON WAY

BETA JOB No.	4496
PLOT DATE:	5/20/2016 5:28 PM
ISSUE DATE	2/23/2016 4:04 PM
SHEET No.	3 OF 7
File:	4496 Mass Ave TMP Close.dwg



2 WEEKS PRIOR TO  
DETOUR

PCMS #3A	PANEL 1		PANEL 2	
	HARRINGTON -		STARTS	
	TON ROAD		DATE	
	ONE - WAY			


DURING DETOUR

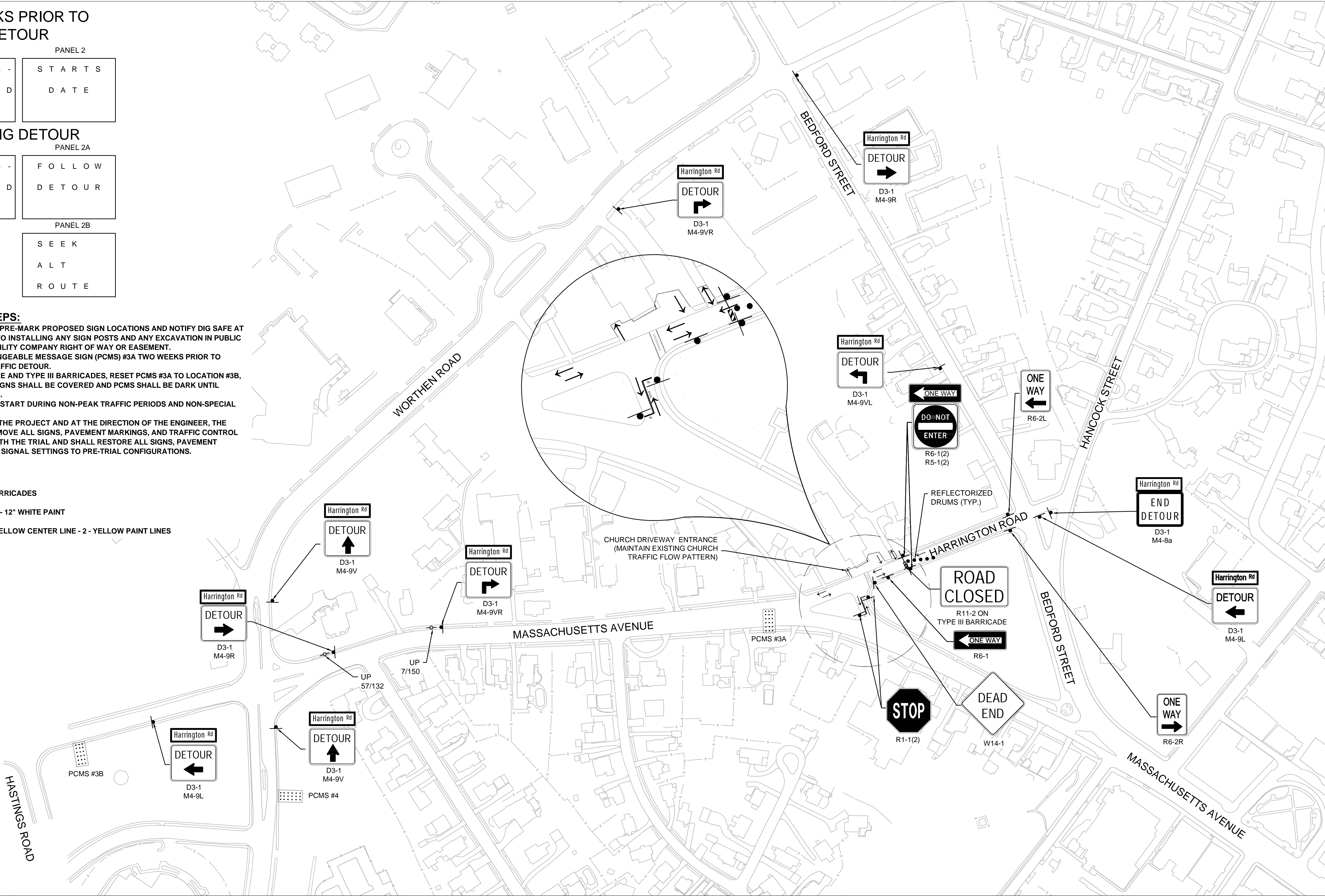
PCMS #3B PCMS #4	PANEL 1		PANEL 2A	
	HARRINGTON -		FOLLOW	
	TON ROAD		DETOUR	
	ONE - WAY			
			PANEL 2B	
			SEEK	
			ALT	
			ROUTE	

IMPLEMENTATION STEPS:

1. THE CONTRACTOR MUST PRE-MARK PROPOSED SIGN LOCATIONS AND NOTIFY DIG SAFE AT LEAST 72-HOURS PRIOR TO INSTALLING ANY SIGN POSTS AND ANY EXCAVATION IN PUBLIC OR PRIVATE WAYS OR UTILITY COMPANY RIGHT OF WAY OR EASEMENT.
2. INSTALL PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) #3A TWO WEEKS PRIOR TO IMPLEMENTATION OF TRAFFIC DETOUR.
3. INSTALL DETOUR SIGNAGE AND TYPE III BARRICADES, RESET PCMS #3A TO LOCATION #3B, AND INSTALL PCMS #4. SIGNS SHALL BE COVERED AND PCMS SHALL BE DARK UNTIL IMPLEMENTATION BEGINS.
4. IMPLEMENTATION SHALL START DURING NON-PEAK TRAFFIC PERIODS AND NON-SPECIAL EVENT DAYS.
5. AT THE CONCLUSION OF THE PROJECT AND AT THE DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL REMOVE ALL SIGNS, PAVEMENT MARKINGS, AND TRAFFIC CONTROL DEVICES ASSOCIATED WITH THE TRIAL AND SHALL RESTORE ALL SIGNS, PAVEMENT MARKINGS, AND TRAFFIC SIGNAL SETTINGS TO PRE-TRIAL CONFIGURATIONS.

LEGEND:

-  TYPE III BARRICADES
- SL = STOP LINE - 12" WHITE PAINT
- DYCL = DOUBLE YELLOW CENTER LINE - 2 - YELLOW PAINT LINES



NUMBER	DATE	MADE BY	CHECKED BY		DESCRIPTION
					REVISIONS

DRAWN BY: TAD
DESIGNED BY: MWW
CHECKED BY: KYH

PE STAMP:  
  
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PREPARED BY:

**BETA**

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SCALE:

100 0 100 200

SCALE IN FEET: 1"=100'

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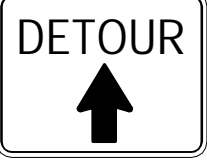

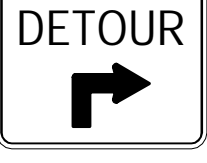
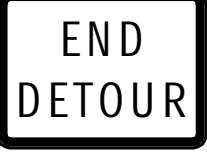


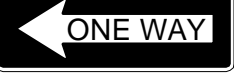




HARRINGTON ROAD ONE-WAY CLOSURE TRIAL

TRAFFIC DETOUR PLAN

LEXINGTON, MASSACHUSETTS

BETA JOB No.	4496
PLOT DATE:	5/20/2016 5:28 PM
ISSUE DATE	11/6/2015 4:16 PM
SHEET No.	4 OF 7
File:	4496 Harrington Detour.dwg

TRAFFIC SIGN SUMMARY

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	DIMENSIONS (in)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK- GROUND	LEGEND	BORDER			
D3-1	30 in	9 in		SEE 2009 MUTCD STANDARDS	SEE 2009 MUTCD STANDARDS	SEE 2009 MUTCD STANDARDS	10	SEE 2009 MUTCD STANDARDS	SEE 2009 MUTCD STANDARDS	SEE 2009 MUTCD STANDARDS	P-5 10	1.9	19
M4-9L	30 in	24 in					2				MOUNT 2 W/D3-1	5	10
M4-9R	30 in	24 in					2				MOUNT 2 W/D3-1	5	10
M4-9V	30 in	24 in					2				MOUNT 2 W/D3-1	5	10
M4-9VL	30 in	24 in					1				MOUNT 1 W/D3-1	5	5
M4-9VR	30 in	24 in					2				MOUNT 2 W/D3-1	5	10
M4-8a	24 in	18 in					1				MOUNT 1 W/D3-1	3	3
R5-1	30 in	30 in					2				P-5 2	6.25	12.5
R11-2	48 in	30 in					1				MOUNT 1 ON BARRICADE	10	10
R6-1 (PBS*)	36 in	12 in					3				MOUNT 2 ON R5-1 1 ON P-5	3	9
R6-2L	24 in	30 in					1				P-5 1	5	5
R6-2R	24 in	30 in					1				P-5 1	5	5
R1-1	30 in	30 in					2				P-5 2	6.25	12.5
W14-1	30 in	30 in					1				P-5 1	6.25	6.25

\*(PBS) = PAINT BOTH SIDES

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					DESIGNED BY: MWW					PLOT DATE: 5/20/2016 5:28 PM
					CHECKED BY: KYH					ISSUE DATE 11/6/2015 4:16 PM
NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION					SIGN SUMMARY SHEET	SHEET No. 5 OF 7
REVISIONS									LEXINGTON, MASSACHUSETTS	File: 4496 Harrington Detour.dwg

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2 WEEKS PRIOR TO DETOUR

PANEL 1

PANEL 2

HARRINGTON -  
TON ROAD  
CLOSED

STARTS  
DATE

DURING DETOUR

PANEL 1

PANEL 2A

HARRINGTON -  
TON ROAD  
CLOSED

FOLLOW  
DETOUR


PANEL 2B

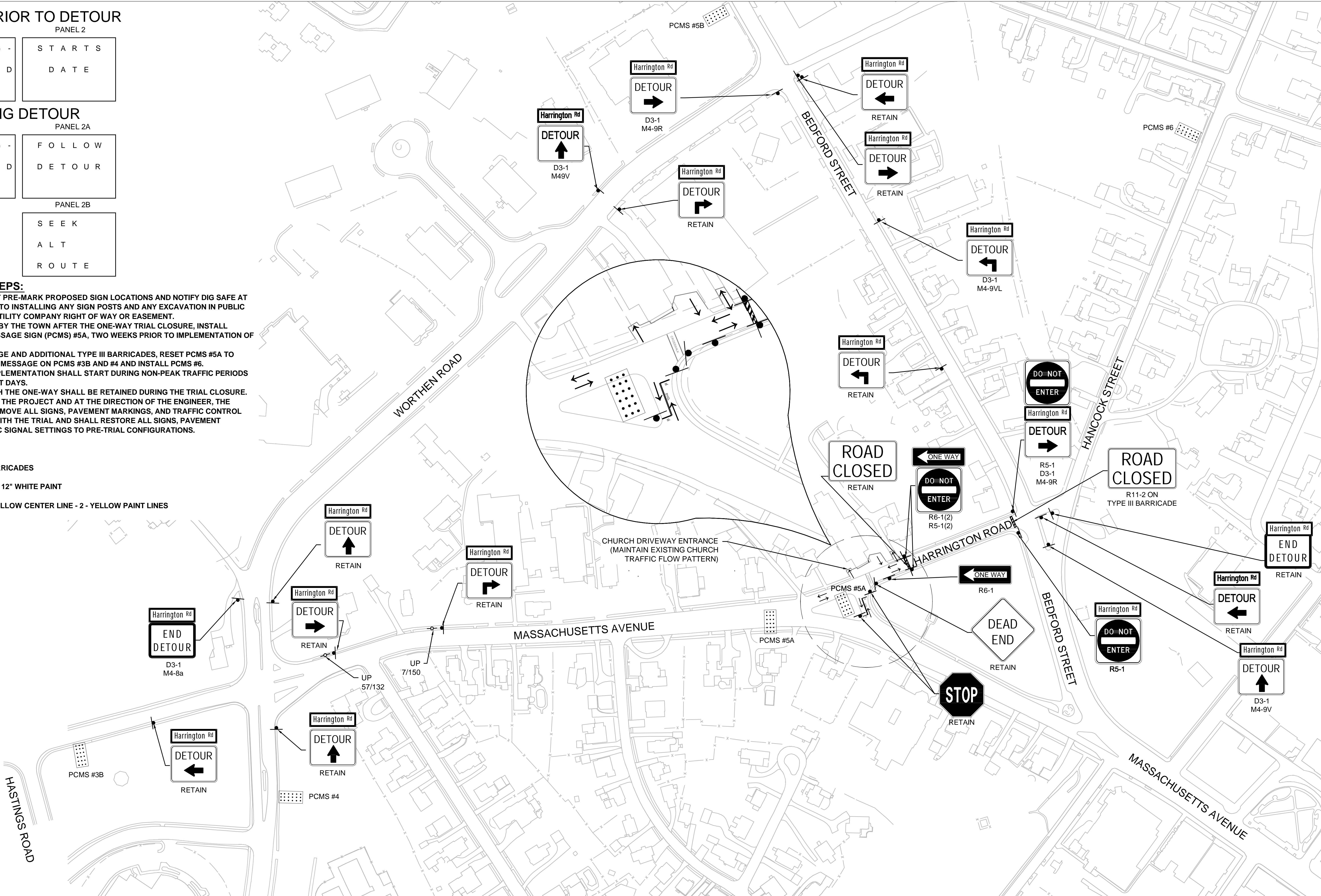
SEEK  
ALT  
ROUTE

IMPLEMENTATION STEPS:

1. THE CONTRACTOR MUST PRE-MARK PROPOSED SIGN LOCATIONS AND NOTIFY DIG SAFE AT LEAST 72-HOURS PRIOR TO INSTALLING ANY SIGN POSTS AND ANY EXCAVATION IN PUBLIC OR PRIVATE WAYS OR UTILITY COMPANY RIGHT OF WAY OR EASEMENT.
2. IF DEEMED NECESSARY BY THE TOWN AFTER THE ONE-WAY TRIAL CLOSURE, INSTALL PORTABLE CHANGE MESSAGE SIGN (PCMS) #5A, TWO WEEKS PRIOR TO IMPLEMENTATION OF TRAFFIC DETOUR.
3. INSTALL DETOUR SIGNAGE AND ADDITIONAL TYPE III BARRICADES, RESET PCMS #5A TO LOCATION #5B, CHANGE MESSAGE ON PCMS #3B AND #4 AND INSTALL PCMS #6.
4. PCMS #3B, #4 AND #6 IMPLEMENTATION SHALL START DURING NON-PEAK TRAFFIC PERIODS AND NON-SPECIAL EVENT DAYS.
5. SIGNS ASSOCIATED WITH THE ONE-WAY SHALL BE RETAINED DURING THE TRIAL CLOSURE.
6. AT THE CONCLUSION OF THE PROJECT AND AT THE DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL REMOVE ALL SIGNS, PAVEMENT MARKINGS, AND TRAFFIC CONTROL DEVICES ASSOCIATED WITH THE TRIAL AND SHALL RESTORE ALL SIGNS, PAVEMENT MARKINGS, AND TRAFFIC SIGNAL SETTINGS TO PRE-TRIAL CONFIGURATIONS.

LEGEND:

-  TYPE III BARRICADES
- SL = STOP LINE - 12" WHITE PAINT
- DYCL = DOUBLE YELLOW CENTER LINE - 2 - YELLOW PAINT LINES



NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION	
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**TAD**

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**MWW**

CHECKED BY:  
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SCALE:

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**HARRINGTON ROAD FULL CLOSURE TRIAL**

**TRAFFIC DETOUR PLAN**

**LEXINGTON, MASSACHUSETTS**

BETA JOB No. 4496




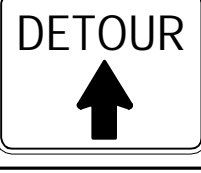
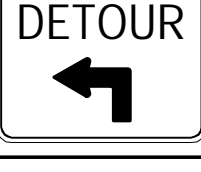



PLOT DATE: 5/20/2016 5:28 PM

ISSUE DATE 11/6/2015 4:16 PM

SHEET No. **6 OF 7**

File: 4496 Harrington Detour.dwg

TRAFFIC SIGN SUMMARY

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	DIMENSIONS (in)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK- GROUND	LEGEND	BORDER			
D3-1	30 in	9 in		SEE 2009 MUTCD STANDARDS	SEE 2009 MUTCD STANDARDS	SEE 2009 MUTCD STANDARDS	6	SEE 2009 MUTCD STANDARDS	SEE 2009 MUTCD STANDARDS	SEE 2009 MUTCD STANDARDS	P-5 7	1.9	13.3
M4-9L	30 in	24 in					2				MOUNT 2 W/D3-1	5	10
M4-9R	30 in	24 in					1				MOUNT 1 W/D3-1	5	5
M4-9V	30 in	24 in					2				MOUNT 2 W/D3-1	5	10
M4-9VL	30 in	24 in					1				MOUNT 1 W/D3-1	5	5
M4-8a	24 in	18 in					1				P-5 1	3	3
R5-1	30 in	30 in					2				MOUNT 1 W/D3-1 P-5 1	6.25	12.5
R11-2	48 in	30 in					1				MOUNT 1 ON BARRICADE	10	10

						DRAWN BY: TAD	PE STAMP:  For Review Only	PREPARED BY:  <b>BETA</b> www.BETA-inc.com		SCALE:  NONE	HARRINGTON ROAD FULL CLOSURE TRIAL	BETA JOB No. 4496
						DESIGNED BY: MWW						PLOT DATE: 5/20/2016 5:28 PM
						CHECKED BY: KYH						ISSUE DATE 11/6/2015 4:16 PM
NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION							SIGN SUMMARY SHEET	SHEET No. 7 OF 7
REVISIONS											LEXINGTON, MASSACHUSETTS	File: 4496 Harrington Detour.dwg

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